State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-706 Relating to Certification of New Motor Vehicles

GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1996 model-year General Motors Corporation exhaust emission control systems are certified as described below for passenger cars:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

Fuel Type: Gasoline

Engine Family: TGM2.2V8G2EK <u>Displacement</u>: 2.2 Liters (134 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Exhaust Gas Recirculation Oxygen Sensor Heated Oxygen Sensor Three Way Catalytic Converter Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The TLEV certification exhaust emission standards for this engine family in grams per mile are:

	Non-Methane	Carbon	Nitrogen	•	Carbon	
<u>Miles</u>	<u>Organic Gas</u>	<u>Monoxide</u>	<u>Oxides</u>	<u>Formaldehyde</u>	<u>Monoxide (20⁰F)</u>	
50,000 100,000	0.125 0.156	3.4 4.2	0.4 0.6	0.015 0.018	10.0 n/a	

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.98

The certification exhaust emission values set forth for non-methane organic gas (NMOG) reflect application of a 0.98 RAF for 1996 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are:

<u>Miles</u>	Non-Methane Organic Gas	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	<u>Formaldehyde</u>	Carbon <u>Monoxide (20⁰F)</u>	
50,000	0.089	1.2	0.2	0.002	4.4	
100,000	0.092	1.4	0.3	0.002	n/a	

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average NMOG exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the 50,000-mile evaporative emission standards applicable to 1980 through 1994 model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles," and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this _____ day of July 1995.

R. B. Summerfield Assistant Division Chief Mobile Source Division

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET GASOLINE-FUELED PASSENGER CARS

VEHICLE MODELS:

1 J C 3 7 (EXAMPLE)

<u>Digit 1 - Selling Division</u>

1 - Chevrolet

2 - Pontiac 3 - Oldsmobile

4 - Buick

6 - Cadillac

8 - Saturn

Digit 2 - Body Designation

- Cutlass Ciera. Cutlass Cruiser, Century Wagon

- Caprice, Caprice Wagon, Roadmaster Wagon, Coachbuilder Wagon, Roadmaster

Ninety-Eight. Park AvenueFleetwood. Limousine. Funeral Coach/Hearse

- Eldorado

- Camaro, Firebird/Formula

- Riviera, Aurora

- Bonneville, Eighty-Eight, LeSabre - Cavalier, Sunfire

- Seville

Ksp - Deville/Concours - Corsica, Beretta

- Grand Am, Achieva, Skylark

- Grand Prix, Regal, Cutlass Supreme, Lumina, Monte Carlo

- Corvette

- Saturn SC. SL. SW

<u>Digit 3 - Trim Level</u>

B, C, D, E, F, G, H, J, K, L, M, N, P, R, S, T, U, V, W, X, Y, Z

Digits 4 & 5 - Body Style

07 - 2Dr	r Sport Coupe	37	_	2Dr Hardtop Coupe
08 - 2Dr	Hatchback Coupe	<u>4</u> 7	_	2Dr Hardtop Coupe
11 - 2Dr	Notchback	57	_	2Dr Hardtop Coupe
15 - 2Dr	Station Wagon	57	_	20 nature to Coupe
19 - 40r	Sedan	60	_	2Dr Convertible Coupe
23 - 404	`Aux. Seat Sedan	68	-	4Dr Hatchback Sedan
20 - 401	Mux. Sedi Seudii	69	-	4Dr (Notchback) Sedan
27 - ZUI	(Notchback) Coupe	77	-	2Dr Hatchback Coupe
29 - 4Dr	, Zegau	87	_	2Dr Hatchback Coupe
35 - 4Dr	Station Wagon	90	-	Commerical Chassis

ISSUED: ML-TP097

REVISED:

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

EXH STE EVAP ST VEH CLA SINGLE FUEL TY	SS(ES): PC <u>X</u> L CERT STD FOR MULT 'PE(S): DEDICATED	INE FAMILY: TLEV_X_ EFUL LIFE WIT DT1 LDT II-CLASS ENGI D_X_ GASOLI	CA_X_ LEV H R/L 2 MD NE FAMILY NE_X_ ;	49S ULEV ZEV : IN-USE EXH S V1 MDV2 : <u>NA</u> EMISS TEST F	50S ' ; U.S. E TD: FULL_X A MDV3 MDV4	AB965 EPA Tier-1 <u>NA</u> ALTERNATIVE MDV5
	: ACCUM: STD AMA_ :T PROC: <u>NA</u>		ADP <u>X</u> ;			EQUIV_X
		PT SOURCE_ 4_X V6				CYCLE: NA
		ALVES/CYLIND			NT: <u>2.2</u> LITERS TED HP: <u>120</u>	
ENGINE	LOCATION: FRONT_		DRIVE:		4WD-FT	
EXHAUST	EMISSION CONTROL	SYSTEM: <u>E(</u>	GR. 02S, F	HO2S. TWC. SFI		
RLHP/DP	A VALUES: <u>SECTI</u>	ON 08.13.02.0	00_			
ENG CODE OC)	VEH MODELS (SEE PAGE 1)	TRANS. (M5.A4 _ETC.)	EQUIV. TEST WEIGHT	IGNITION (ECM/PCM) PART NO	EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART NO.
61	1JC37 1JF69 2JB37 2JB69 1JC69 1JF67 2JB67	A3	3000 3125	16214953/BNSU	J 17096100, 17096306	25163086
62	1JC37 1JF69 2JB37 2JB69 1JC69 1JF67 2JB67		3000			
<u>CARL</u> CHEVROLE PONTIAC	INE NAME T CAVALIER SUNFIRE	CARLINE 12060 33060	CODE		•	
SUED:	ML-TP097	REVISED	:			

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

R:	GENERAL MOTORS CORP.	ENGIN	E FAMILY:	TGM2.2V8G2EK	EVAP. FAMILY: _	TGM1089AYM0A
ENG CODE (LOC)	VEH MODELS (SEE PAGE 1)	TRANS. (M5,A4 _ETC.)	EQUIV. TEST <u>WEIGHT</u>	IGNITION (ECM/PCM) PART NO.	EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART NO.
63	1JC37 1JC69 2JB37 2JB69 1JF69 1JF67 2JB67	A4	3000 3125 3250	16214933/BNSS	17096100, 17096306	25163086
64	1JC37 1JC69 2JB69 2JB37 1JF69 1JF67 2JB67		3000 3125 3250			

<u>CARLINE NAME</u>
CHEVROLET CAVALIER
PONTIAC SUNFIRE

CARLINE CODE 12060 33060

SSUED: ML-TP097

REVISED:

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

<u> </u>	<u>ENERAL MOTORS CO</u>	<u>RP.</u> ENGIN	NE FAMILY:	TGM2.2V8G	2EK EV.	AP. FAMILY:	TGM1046AYM0A
ALL ENG	INE CODES IN ENG:	INE FAMILY:	CA_X		9S	50\$	AB965
EXH STD	: CA Tier-1	TLEV_X_	LEV				EPA Tier-1 NA
EVAP ST	D: 50K <u>X</u> USE	FUL LIFE WI	TH R/L				ALTERNATIVE
VEH CLAS				V1 MD'		DV3 MDV	
SINGLE (CERT STD FOR MULT	I-CLASS ENG	INE FAMILY	: <u>NA</u>			1,045
FUEL TY	PE(S): DEDICATED	X GASOL	INE <u>X</u> ;		TEST FUEL	(S): INDO	_ PHASE 2_X
SERVICE	ACCUM: STD AMA_	MF	R ADP_X ;		G TEST PRO		EQUIV <u>X</u>
R/L TEST	F PROC: <u>NA</u>	PT SOURCE	;		TYPE: N	•	U CYCLE: NA
ENGINE (CONFIGURATION: I	4 <u>X</u> V6	V8	DISPL	_ACEMENT:		S/ <u>134</u> CU. IN.
		ALVES/CYLIN	DER: 2 <u>X</u>	4			@ <u>5200</u> RPM
	OCATION: FRONT_		DRIVE:	FWD <u>X</u>	RWD	4WD-FT	
	EMISSION CONTROL			102S. TWC.	SFI		
RLHP/DPA	VALUES: <u>SECTI</u>	<u>ON 08.13.02</u>	.00				
ENG		TRANS.	EQUIV.	IGNIT	TON	FOR	0.71.
CODE	VEH MODELS	(M5,A4	TEST	(ECM/	PCM)	EGR System	CATALYTIC CONVERTER
(LOC)	(SEE PAGE 1)	<u>ETC.)</u>	<u>WEIGHT</u>	PART NO	./CALIB	<u>PART NO.</u>	PART NO.
- 5	1LD69	A3	3125	16215830/	16214963	17096100.	25165123
	1LV37					17096306	
65A				16215830/	16231583		
65B				16215830/	16234383		
65C							
				16215830/	10235393		
CADI '	TAIC NAME	0404					
CHEVROLE	INE NAME I CORSICA	<u>CARL INE</u> 1201					
CHEVROLET	T BERETTA	1202					

ISSUED: ML-TP097

REVISED: ML-TR036A, ML-TR049, ML-TP141, ML-TR056

17-TGM2.2V8G2EK-3.1